

90133224

號

**Active matrix LCD device with auxilliary electrode
surrounding pixel electrode**

Patent Number: GB2344683

Publication date: 2000-06-14

Inventor(s): LEE YUN BOK (KR); SEO SEONG MOH (KR); KIM JEOM JAE (KR);
KIM KYEONG JIN (KR); SHIN HYUN HO (KR)

Applicant(s): LG PHILIPS LCD CO LTD (KR)

Requested

Patent: ☐ GB2344683

Application

Number: GB19990029051 19991208

Priority Number

(s): KR19980054557 19981211; KR19990005587 19990219

IPC

Classification: G02F1/136

EC

Classification: G02F1/1362C

Equivalents:

☐ DE19959674, ☐ FR2787205, ☐ JP2000194016,
KR2000047368**Abstract**

A LCD device includes first and second substrates facing each other and a liquid crystal layer between the two substrates. A plurality of gate bus lines (1) are arranged in a first direction and a plurality of data bus lines (3) are arranged in a second perpendicular direction on the first substrate to define a pixel region. A pixel electrode (13) is electrically charged through the data bus line (3) in the pixel region. A common auxiliary electrode (15) surrounds the pixel electrode (13). A gate insulator (35, fig 2C) covers the first substrate along with a passivation layer (37) formed on the insulator. A light shielding layer (25) is formed on the second substrate along with a colour filter layer (23) and common electrode (27).

Data supplied from the esp@cenet database - 12

(12) UK Patent Application (19) GB (11) 2 344 683 (13) A

(43) Date of A Publication 14.06.2000

(21) Application No 9929051.2

(22) Date of Filing 08.12.1999

(30) Priority Data

(31) 98054557

(32) 11.12.1998

(33) KR

(31) 99005587

(32) 19.02.1999

(71) Applicant(s)

LG. Philips LCD Co., Ltd.

(Incorporated in the Republic of Korea)

20 Yoido-dong, Youngdungpo-ku, Seoul,
Republic of Korea

(72) Inventor(s)

Seong Moh Seo

Hyun Ho Shin

Kyeong Jin Kim

Yun Bok Lee

Jeom Jae Kim

(51) INT CL⁷

G02F 1/136

(52) UK CL (Edition R)

G5C CA310 CA342 CHE CHG

(56) Documents Cited

GB 2337843 A JP 050297412 A US 5777701 A

(58) Field of Search

UK CL (Edition R) G5C CHE CHG

INT CL⁷ G02F 1/136

Online: EPODOC; WPI; PAJ

(74) Agent and/or Address for Service

Edward Evans & Co

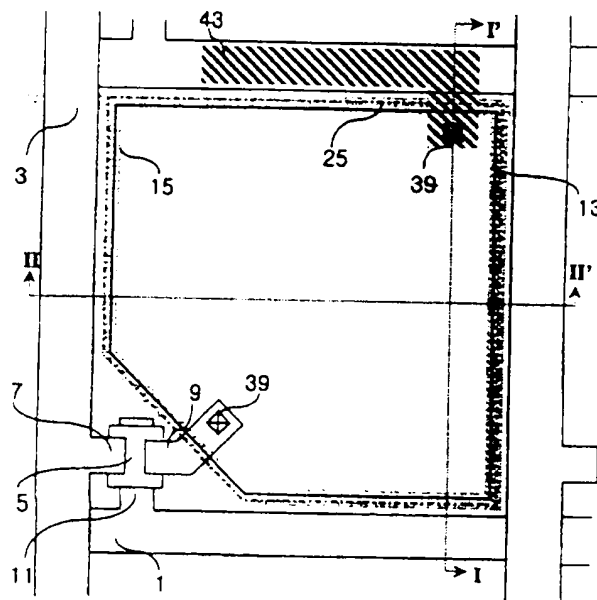
Clifford's Inn, Fetter Lane, LONDON, EC4A 1BX,
United Kingdom

(54) Abstract Title

Active matrix LCD device with auxiliary electrode surrounding pixel electrode

(57) A LCD device includes first and second substrates facing each other and a liquid crystal layer between the two substrates. A plurality of gate bus lines (1) are arranged in a first direction and a plurality of data bus lines (3) are arranged in a second perpendicular direction on the first substrate to define a pixel region. A pixel electrode (13) is electrically charged through the data bus line (3) in the pixel region. A common auxiliary electrode (15) surrounds the pixel electrode (13). A gate insulator (35, fig 2C) covers the first substrate with a passivation layer (37) formed on the insulator. A light shielding layer (25) is formed on the second substrate along with a colour filter layer (23) and common electrode (27).

FIG. 2A



GB 2 344 683 A